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The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (currently amended) An electric motor comprising:
- a stator for producing a magnetic field;

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- a rotor rotated by said magnetic field;
- a motor shaft coupled to said rotor, and
- a first set of passageways through said retor to conduct a nongaseous liquid coolant.
- 2. (original) The electric motor of Claim 1 wherein said stator includes current carrying coils to generate said magnetic field.
 - 3. (original) The electric motor of Claim 1 wherein said rotor is a squirrel cage rotor.
 - 4. (original) The electric motor of Claim | wherein said rotor includes permanent magnets.
- 5. (currently amended) The electric motor of Claim 1 wherein said motor shaft includes an interior surface that is cone shaped to conduct [a[said nongaseous liquid coolant through said interior surface to cool the electric motor.
- 6. (previously presented) The electric motor of Claim 1 wherein said first set of passageways has entrance openings and exit openings, said entrance openings oriented about said motor shaft center line at a first diameter, said exit openings oriented about said motor shaft center line at a second diameter, and said first diameter being less than said second diameter.
- 7. (original) The electric motor of Claim 1 further including a second set of passageways between said rotor and said motor shaft.

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- 8. (original) The electric motor of Claim 7 wherein said second set of passageways have entrance openings and exit openings, said entrance openings oriented about said motor shaft center line at a first diameter, said exit openings oriented about said motor shaft center line at a second diameter, and said first diameter being less than said second diameter.
 - 9. (previously presented) An electric motor comprising:
 - a wound stator, said wound stator conducting current to generate a magnetic field; a rotor rotated by said magnetic field;
- a motor shaft coupled to said rotor, said motor shaft including a cone shaped interior surface having an entrance opening and an exit opening; and
- a liquid coolant propelled by centrifugal force generated by the rotation of said rotor through said cone shaped interior surface, said liquid coolant cooling the electric motor; and
- a first set of passageways through said rotor to conduct said liquid coolant through said rotor.
 - 10. (original) The electric motor of claim 9 wherein said rotor is a squirrel cage rotor.
 - 11. (original) The electric motor of Claim 9, wherein said rotor includes permanent magnets.
 - 12. (original) The electric motor of Claim 9 wherein said liquid coolant is oil.
 - 13. cancelled.
 - 14. (previously presented) The electric motor of Claim 9 wherein said first set of passageways have entrance openings and exit openings, said entrance openings oriented about said motor shaft center line at a first diameter, said exit openings oriented about said motor shaft center line at a second diameter, and said first diameter being less than said second diameter.

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- 15. (original) The electric motor of Claim 9 further including a second set of passageways between said rotor and said motor shaft.
- 16. (original) The electric motor of Claim 15 wherein said second set of passageways have entrance openings and exit openings, said entrance openings oriented about said motor shaft center line at a first diameter, said exit openings oriented about said motor shaft center line at a second diameter, and said first diameter being less than said second diameter.
- 17. (previously presented) A method of cooling an electric motor comprising:

 providing an electric motor having a stator, a rotor magnetically coupled to said stator, and a hollow motor shaft coupled to said rotor,

rotating said rotor and said motor shaft; and
generating a centrifugal force to force a liquid coolant through passageways in
said rotor.

18. (New) The method of Claim 18 wherein said liquid coolant is oil.